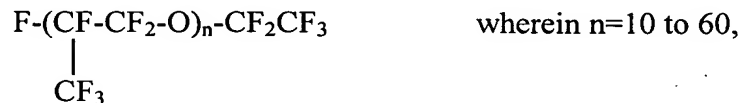


I CLAIM:

1. An electrode suitable for use in a fuel cell bearing a coating of at least one transport polymer.

2. An electrode of Claim 1 wherein the transport polymer comprises at least one perfluoroether.

3. An electrode of Claim 2 wherein the perfluoroether is characterized by the general formula:



and the carbon chain is saturated and contains only carbon, oxygen and fluorine.

4. An electrode of Claim 1 wherein the transport polymer comprises perfluoropentane.

5. An electrode of Claim 1 wherein the transport polymer comprises polytetrafluoroethylene.

6. An electrode of Claim 5 wherein the polytetrafluoroethylene is substantially amorphous.

7. An electrode of Claim 1 wherein the transport polymer comprises at least one silicone oil.

8. An electrode of Claim 7 wherein the silicone oil comprises polydimethylsiloxane.

9. An electrode of Claim 1 wherein the transport polymer is on one surface of the electrode.

10. In a fuel cell comprising at least one cathode and at least one anode and an ion exchange membrane separating the cathode and the anode, the improvement wherein at least one electrode bears a coating of at least one transport polymer.

11. A fuel cell of Claim 10 wherein the transport polymer is an oxygen transport polymer on the cathode.

12. A fuel cell of Claim 10 wherein the transport polymer is a hydrogen transport polymer on the anode.